

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P581347

Luminaire Tested: **HC460D010-HM44560927-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560927-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3966.6 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

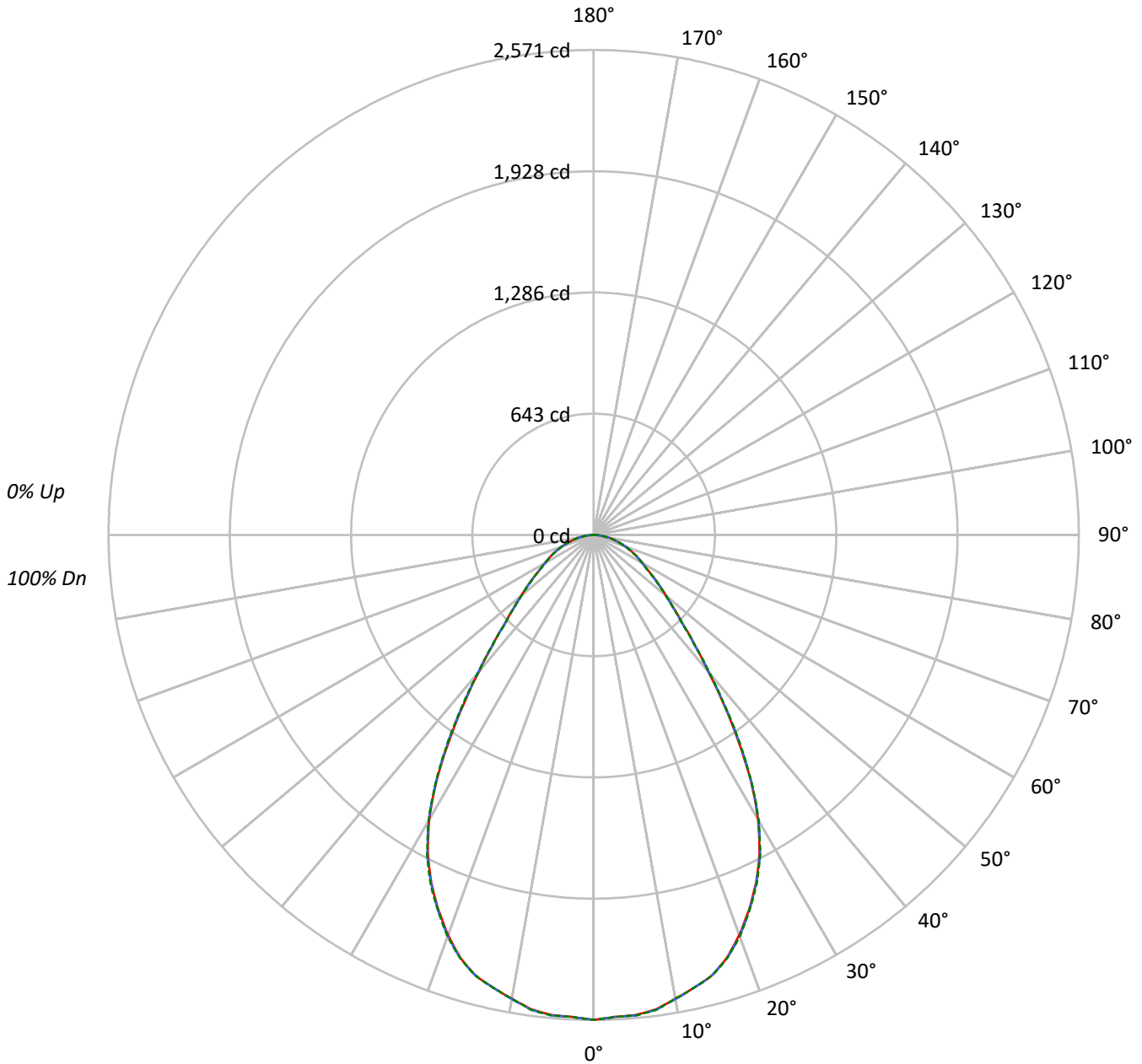
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51																			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39																			
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	317109	317109	317109
5°	316340	316674	316674
10°	312670	313008	312670
15°	308924	308924	308924
20°	296244	296940	297281
25°	277080	277447	278168
30°	248279	249034	249034
35°	201578	203174	203580
40°	152128	152982	153416
45°	116524	116053	116053
50°	96023	95505	95505
55°	82427	81847	81847
60°	73539	72873	72873
65°	69142	69142	69142
70°	64302	64302	64302
75°	58332	59619	58332
80°	54837	52990	54837
85°	45146	45146	45146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	6.1
10°-20°	677.9	17.1
20°-30°	931.4	23.5
30°-40°	837.5	21.1
40°-50°	529.2	13.3
50°-60°	345.5	8.7
60°-70°	234.1	5.9
70°-80°	131.8	3.3
80°-90°	37.0	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1851.5	46.7
0°-40°	2689.1	67.8
0°-60°	3563.7	89.8
0°-90°	3966.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3966.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2571	2571	2571	2571	2571	
5°	2555	2555	2558	2558	2558	242
15°	2419	2419	2419	2419	2419	677
25°	2036	2039	2039	2044	2044	929
35°	1339	1344	1349	1355	1352	834
45°	668	665	665	665	665	530
55°	383	383	381	383	381	347
65°	237	237	237	237	237	235
75°	122	125	125	125	122	131
85°	32	32	32	32	32	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2570.9	2570.9	2570.9	2570.9	2570.9
2.5°	2557.6	2557.6	2557.6	2557.6	2557.6
5°	2554.9	2554.9	2557.6	2557.6	2557.6
7.5°	2536.3	2539.0	2539.0	2539.0	2539.0
10°	2496.4	2496.4	2499.1	2499.1	2496.4
12.5°	2459.2	2459.2	2459.2	2461.7	2459.2
15°	2419.2	2419.2	2419.2	2419.2	2419.2
17.5°	2350.0	2352.7	2352.7	2352.7	2352.7
20°	2256.9	2262.2	2262.2	2264.8	2264.8
22.5°	2150.4	2153.0	2155.7	2158.4	2155.7
25°	2035.9	2038.6	2038.6	2043.9	2043.9
27.5°	1902.9	1905.5	1910.8	1910.8	1910.8
30°	1743.2	1745.9	1748.5	1748.5	1748.5
32.5°	1554.3	1554.3	1559.6	1562.3	1559.6
35°	1338.7	1344.0	1349.3	1354.6	1352.0
37.5°	1133.8	1139.1	1141.8	1141.8	1144.4
40°	944.8	950.1	950.1	955.4	952.8
42.5°	795.8	793.1	793.1	798.4	795.8
45°	668.0	665.3	665.3	665.3	665.3
47.5°	574.8	572.2	572.2	572.2	572.2
50°	500.4	497.7	497.7	497.7	497.7
52.5°	439.1	436.4	436.4	436.4	433.8
55°	383.3	383.3	380.6	383.3	380.6
57.5°	332.6	332.6	332.6	332.6	332.6
60°	298.1	295.4	295.4	295.4	295.4
62.5°	266.1	266.1	266.1	266.1	266.1
65°	236.9	236.9	236.9	236.9	236.9
67.5°	207.6	205.0	207.6	207.6	205.0
70°	178.3	175.6	178.3	178.3	178.3
72.5°	149.0	149.0	149.0	151.7	149.0
75°	122.4	125.1	125.1	125.1	122.4
77.5°	98.5	101.2	98.5	98.5	98.5
80°	77.2	74.6	74.6	74.6	77.2
82.5°	53.2	53.2	53.2	53.2	53.2
85°	31.9	31.9	31.9	31.9	31.9
87.5°	13.3	13.3	13.3	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)